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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,902	07/09/2001	Stephen C. Baer	1498	
7	590 09/25/2003			
Stephen C. Baer			EXAMINER	
10 Poplar Rd. Cambridge, MA	A 02138	•	BERMAN, JACK I	
			ART UNIT	PAPER NUMBER
			2881	·
-			DATE MAILED: 09/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

		19				
	Application No.	Applicant(s)				
Office Action Summary	09/902,902	BAER, STEPHEN C.				
Office Action Guillinary	Examin r	Art Unit				
The MAN ING DATE of this communication and	Jack I. Berman	2881				
Th MAILING DATE of this communication app ars on the cover sheet with the correspond nce address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>04 M</u>	<u>1arch 2003</u> .					
2a) This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>41-60</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>41-43 and 51-60</u> is/are rejected.						
7)⊠ Claim(s) <u>44-50</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro- 15)☐ Acknowledgment is made of a claim for domestic						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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Claim 58 is objected to because of the following informalities: "Imagined" should read -- imaged-- or --irradiated--. Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 59 and 60 are rejected under 35 U.S.C. 102(a) as being anticipated by Hell et al. The Hell et al. article in Optics Letters teaches to provide beams of quenching radiation, a second type of radiation that the article calls stimulated-emission-depletion (STED) beams, on opposite sides of a beam of exciting radiation that is focused on a target material to be examined containing a fluorescent material that constitutes an excitable species so that the central maximum of the exciting beam coincides with a central minimum of the quenching radiation and the resolution of the apparatus is thereby increased. The structure disclosed in the article appears to be identical to that claimed in the instant claims, so there is no reason to assume that the central minimum of the quenching radiation is anything other than substantially zero.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 41-43, 51, 52, and 58 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 2, 3, and 8-10 of U.S.

Patent No. 5,952,668. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to a person having ordinary skill in the art to project the exciting radiation and the second type of radiation in patterns other than those specified in the patented claims. It is noted that the cancellation of contributions from the radiation from the two coherent but out-of-phase beams of the second type of radiation to produce an intensity of substantially zero inherently involves an interference pattern.

Claims 53-57 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-17 of U.S. Patent No. 5,866,911.

Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to a person having ordinary skill in the art that the scanning claimed in the patented claim was not required for operation of the system.

Claims 44-50 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach to produce an interference pattern of the second type of radiation in the form of a node that is substantially extended in at least one dimension, or to provide means to improve the resolution of the apparatus in a dimension parallel to the axis of the focusing means.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack I. Berman whose telephone number is (703) 308-4849. The examiner can normally be reached on M-F (8:30-6:00) with every second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (703) 308-4116. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jack J. Berman Jack I. Berman Primary Examiner Art Unit 2881 Page 4

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September 24, 2003